

## CC-LandStraD

It was interesting to see the different ways of valuation the projects have chosen and that there are further projects that also analyze cultural services.

We realized that CC-LandStraD in various points is different: no primary data on farm level, no plots, and the stakeholder involvement will not be realized specifically on ESS.

We look on ESS from the way, what kind of valuation end consumers do on specific ESS.

We are interested in a knowledge exchange regarding methods selection e.g. choice experiment/willingness to pay, multi-criteria analysis or on the topic of cultural services.

## COMTESS

### What was beneficial?

- Exchange between the project partners
- Become inside into the other project structures and methodological approaches and view points

### How can you use it in your RP?

- The discussion motivated us to work further – there are aspects which have to be considered in a deeper way

### How can we proceed from here?

- Exchange between different projects shall be supported in the future
- We identified a lot of problems, misunderstandings/mismatches and unclear aspects – they need to be clarified
- We thank you for the nice and inspiring workshop and the nice Rahmenprogramm – we are motivated to work on

## INNOVATE

We liked the overview presentations from day 1. It was quite useful to see our RP as part of the broader group of 12.

Open questions from days 1 and 2 are alternative concepts to Daily et al. Some were shortly mentioned, though received little emphasis later on.

### Q1 - beneficial

The workshop results were hinting us to review/better justify the current ES selection (as written down 3 years ago in our proposal). Especially the cultural valuation appears to be little addressed so far.

As presented on Day 1, we see options to adopt Daily et al ovals to our project structure (Sub-projects SP1-3: current land and water management affecting ES, the impact of these and alternative management options on ES being assessed (SP4), modeled (SP5), valued (SP6), and presented to and further developed with stakeholders (SP7)). Hence the framework appears to be one potential umbrella concept connecting the SPs. When taking

the arrows in the Figure as directions for studying, then we should remember that it is also to be used in “backward” course (e.g. first detect main ESS and then determine ESF).

## **Q2 - proceed**

We may use the ES checklist (e.g. defra) for a first qualitative overview of main ES in the INNOVATE agro-ecosystems.

An INNOVATE project glossary or wiki on ES (or broader) is on our list. We do not intend to fully harmonize the use of terms but to better understand or be more sensible for potential differences in intended meanings.

End of day 3: we scheduled a follow-up meeting to further operationalize the ES approach within INNOVATE.

We would like GLUES to systematize the info from the single RPs, making it easier to detect similar points among RPs.

## **KULUNDA**

The KULUNDA project participants found the workshop useful und very informative. The presentation of Daily et al. 2009 ecosystem services concept framework by the GLUES staff members and following group discussions clarified many of the issues related to the ecosystem services concept framework.

The KULUNDA project participants of the workshop have decided to transfer the information and knowledge to KULUNDA project staff members and on a later date to have an internal project meeting to discuss the relevance of the framework to the project. After the record (Protokoll) of the workshop is received, from organizers of the workshop, the coordination of KULUNDA project will proceed with further activities.

## **LEGATO**

### **What was beneficial for us?**

- Get to know the Regional Projects and their Ecosystem Services approaches
- Open up options for further collaborations (e.g. in the same study regions)
- Overview of conceptual details of Ecosystem Services
- Learning about Daily et al.’s way to structure Ecosystem Services
- Learning that Daily’s approach is only one option to structure ES

### **How to proceed from now on?**

- Critical evaluation of our ideas on our concept of Ecosystem Services
- Reconsider our role as moderators in the evaluation of Ecosystem Services
- Analysis of stakeholder expectations in the context of evaluation
- Session on Ecosystem Services at the meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ) which takes place in Lüneburg 10-14 September 2012 (deadline for submission of abstracts: 15 May 2012)

**What was beneficial, which was the outcome, what was useful?**

- Exchange was very fruitful and revealed opportunities for joint ESS research among the groups
- Misunderstandings regarding terms were helpful to think of ESS terminology
- It was helpful to freely think and discuss in groups about terms and general concept of ESS without referring to certain approaches or publications.

Outcome/Findings for LUCCI

The selection of the ESS to be investigated on regional scale should

1. consider stakeholder needs (ESS mitigating problems related to land and water management)
  2. be identified systematically by Stocks/Assets (biodiversity, carbon sequestration potential, nutrient cycling... less interesting for local stakeholders at least in developing countries)
- ESS approach additionally supports interdisciplinary research by analysing causality between natural resources and anthropogenic impacts
  - The application of the ESS approach is beneficial
    1. to increase stakeholder awareness regarding ecosystem functions and services (provisioning and regulating);
    2. To quantify and value these services,
    3. To identify and analyse trade-offs among different ESS
  - Three types of ESS in LUCCI: 1. ESS directly impacting on local population as provision of clean fresh water, of fertile soil... 2. Not directly impacting: carbon sequestration, species richness... (only to be supported through incentives) 3. Services from systems as Agricultural/Aquacultural systems, managed forests...
  - Stakeholder are interviewed regarding their main problems, then ESS are identified which are important to mitigate the problem (forest regulates floods, floodplain regulates floods...)

**How can we go forward from now?**

- Organize a further GLUES WS on ESS in a later stage of the projects, in the meanwhile try to foster exchange among the projects via questionnaires and suggest collaboration regarding:
  - 1) topics/ecosystems/assets/stocks: forest, water, carbon...
  - 2) concepts/approaches: values, regional/global/systemwise...
- ESS will be addressed in detail during the next LUCCI Workshop 28.-29.6.2012
- GLUES/ESS presentation during LUCCI workshop in Cologne would be helpful, costs could be covered by ITT

Could you recommend a successful ESS research/publication which used a regional approach (Seppelt et al. 2010)?

## SASCHA

- Independent of its theme, the workshop provided a great opportunity to meet the participants from other regional projects and exchange information on the success stories and difficulties/obstacles for projects' implementation;
- The SASCHA proposal does not contain a task of ESS assessment or evaluation. In this regard, the use of the concept was an open question within the project;
- The workshop provided a good opportunity to discuss the issues and concerns related to the very concept of ESS, as well as research done and approaches developed;
- At the same time a fundamental discussion on the usefulness, advantages and disadvantages of the ESS concept was lacking;
- The three representatives of the SASCHA project came to workshop rather sceptical about the potential of the ESS concept to present the results of the project and the complexity of the problem addressed by the project; this scepticism was further strengthened during the workshop;
- Still, the potential of the application of the ESS concept, and in particular the ESS assessment, within the SASCHA project is to be discussed in a larger group consisting of all project partners;
- The main constraints to the discussion within the workshop was inconsistency in the definition of single concepts and in the understanding of single elements of the Daily framework used as a platform for the work in small working groups;
- The workshop indicated that a lot of confusion and open questions exist in the field of research on ESS.

### Next Steps, ToDo's:

<b>What needs to be done</b>	<b>Who takes lead</b>
Further work on the concept is needed	Scholars from the community working with the concept
Development of the theory behind the ESS concept	Scholars from the community working with the concept
Development of common language, i.e. definitions of single concepts and understanding of single elements of the Daily (and other) framework(s)	Scholars from the community working with the concept

## SULAMA

Discussion about term definitions was very useful. Not so much as to find a common level (which I do not think is easily achieved) but to learn what kind of definitions there are. This is important to be able to better interpret publications about ecosystem services.

Since many people in the project do only attend a relatively small part in the Daily circle (like me) it was very interesting to think about the other parts especially the ones involving the direct linkages to the own area of interest.

For me the Daily circle was a quite good base for discussion also I think it has its flaws (but a starting point for a discussion needs some flaws to make a discussion more interesting ;))

I hoped to find somebody who already has a concept to link the REDD+ with a Biodiversity assessment - especially with some ideas on how to conduct the inventory to prove that the biodiversity did not degrade. It seems to me that nobody had one. This will make it hard to implement any Biodiversity in the project.

## The Future Okavango

### What was beneficial?

- The exchange between the Regional Projects and GLUES
- Not so beneficial was the focus on the Daily-Framework:
  - o too basic to be of use as a checklist
  - o too general to be of operational use

### How will we use the results?

- Which results? No tangible Workshop results!

### How to proceed?

- A clear definition / glossary of terms is needed
- It would be good to identify within each RP and Glues contact persons for ESS methodology, to exchange experiences and methodological approaches
- We would be interested in an workshop on methods of spatially explicit assessments of ESS (technical solutions as well as methodological approaches, solutions for up- and downscaling, GIS-Tools , etc.)
- Work together on a paper regarding the methodological framework of ESS assessments